

ECE-345-001 (Fall 2020) ▼

Course Home > Module 3 >

Review Test Submission: Quiz 3.2

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Course	Intro to Control Systems - Fall 2020 Section Group I67
Test	Quiz 3.2
Started	9/3/20 1:08 AM
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Status	Completed
Attempt Score	4 out of 4 points
Time Elapsed	0 minute
Results Displayed	Submitted Answers, Incorrectly Answered Questions

Question 1

1 out of 1 points



True or false?

A state-space model can be described by four matrices: A, B, C, D .

Selected Answer: True

Question 2

1 out of 1 points



Which of the following correctly describes the state matrix?

Selected Answer:
A $n \times n$ matrix that propogates state-based changes in the state $x(t)$.

Question 3

1 out of 1 points



True or false?

The state-space matrices A, B, C, D change as the system evolves over time.

Selected Answer: False

Question 4

1 out of 1 points



Which of the following statements are correct? (More than one response may be selected.)

Selected Answers: The size of the state-space model depends on the dimension of the state vector.

Typically, the size of the state-space model is determined by the total order of the differential equations that capture the system dynamics.